

### Abstract

The invention relates to a camera system, in particular for an environment detection system of a vehicle. The system comprises a retaining frame for retaining a lens carrier, whose lens guides incident light onto an image sensor. The invention is characterised in that the retaining frame comprises a bearing surface for a contact surface of the lens carrier, running essentially parallel to the plane of the image sensor and that the lens carrier can be displaced, in an alignment disposition, on a plane of the bearing surface and can be permanently fixed in a target position. The invention also relates to a system for aligning a lens carrier, comprising a lens, relative to an image sensor.